

"Image & Video Recognition Experts"



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United States Patent and Trademark Office
Commissioner For Patents
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Application NO. 10/078,299
Name of Applicant: Ying Liu
Name of Examiner: Rosario, Dennis
Date of Interview: NA
Type of Interview: NA
Name of Participants: Dennis Rosario (examiner), Ying Liu (applicant)
Exhibit: NA
Specific Prior Art: NA

Dear Dennis Rosario:

Modifications have been made according to your instructions:

Claims 34 – 39 are currently amended. Claims 40 – 49 are cancelled.

Two quick points are worthwhile to mention:

- (1) The currently amended claims do not add any new material.
- (2) The remaining claims are significantly narrowed in the scope so that they are not covered by Corradini and Wood. There have been many office actions since 2002 on this patent application; and many research papers have been provided by the patent examiners. Claims 34 – 39 have no overlap with these research papers.

This application does not overlap with Corradini and Wood because it has no intention to patent such basic concepts as:

- (1) Identify image via key images/ input vector (Corradini, ...);
- (2) Using neural networks;
- (3) Using Markov chains;
- (4) Using a particular output format, such as triplet (Wood, ...);
- (5) ...

Note: an image recognition process identifies images using key images. The fact of using a key image to identify an image is a trivial and necessary step. It is not patentable to use a key image (input vector, feature vectors obtained from an images, ...) to identify images because it is merely a concept such as $1 + 1 = 2$; therefore, this concept cannot be used against a patent application which merely uses this concept to describe a software process which is unique from all other software.

These corrections are made:

1. No correction is required.
2. Claims 41 – 49 are cancelled.
3. No correction is required.
4. No correction is required.
5. Claim 34 – 39 are modified accordingly.
6. No correction is required.
7. Claim 34 – 39 are modified accordingly.
8. No correction is required.
9. Claim 34 – 39 are modified accordingly.
10. Claims 40 is cancelled.
11. No correction is required.

With Kindest Regards,



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